

## TITLE 326 AIR POLLUTION CONTROL BOARD

### DRAFT RULE LSA Document #09-476

#### DIGEST

Amends 326 IAC 6.8 and 326 IAC 7 concerning the particulate matter and sulfur dioxide emission limitations at Cargill, Incorporated (Cargill) in Hammond, Indiana. Effective 30 days after filing with the Publisher.

#### HISTORY

First Notice of Comment Period: July 1, 2009, Indiana Register (DIN: 20090701-IR-326090476FNA).

Second Notice of Comment Period: December 23, 2009, Indiana Register (DIN: 20091223-IR-326090476SNA).

Notice of First Hearing: December 23, 2009, Indiana Register (DIN: 20091223-IR-326090476PHA).

Date of First Hearing: April 13, 2010.

#### 326 IAC 6.8-2-8

#### 326 IAC 7-4.1-5

#### DRAFT RULE

SECTION 1. 326 IAC 6.8-2-8 IS AMENDED TO READ AS FOLLOWS:

#### 326 IAC 6.8-2-8 Cargill, Inc.

Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11

Affected: IC 13-15; IC 13-17

Sec. 8. (a) Cargill, Inc., in Lake County, source identification number 00203, shall meet the following emission limits:

Source	Stack Number	Emission Limits	
		lbs/hr	gr/dscf
Stack serving boiler numbers 6 and 7	<del>10-03-U-P</del> and <del>10-04-U</del>	<del>30.3</del>	
Stack serving boiler numbers 8 and 10	<del>10-05-U-P</del> and <del>10-06-U</del>	<del>22.7</del>	
Corn syrup solids dust collection system number 2	<del>18-03-R-P</del> <b>18-03-R</b>	0.30	0.01
Receiver for first stage germ dryer	<del>21A-01-G</del>	<del>0.12</del>	<del>0.015</del>

First stage germ dryer exhaust	<del>21A-02-G</del>	<del>0.67</del>	<del>0.01</del>
Corn screening system	30-16-G	0.06	0.01
Corn receiving and storage-bin vent #5	33-01-G	0.171	0.02
Corn receiving and storage-bin vent #6	33-02-G	0.171	0.02
Corn cleaner	33-03-G	0.21	0.01
Batch scale hopper #1	34-01-S	0.04	0.01
Dextrin starch reactor #1	34-02-S	0.180	0.01
Dextrin starch cooler #1	34-03-S	0.042	0.01
Surge hopper #1	34-05-S	0.11	0.01
Dextrin feed hoppers: 1 and 2 (System 1)	34-06-S and 34-07-S	0.030	0.01
Dextrin starch cooler	34B-01-S	0.042	0.01
Surge hopper #2	34B-03-S	0.114	0.01
Dextrin starch reactor #2	34B-04-S	0.179	0.01
Dextrin feed hoppers: 3 and 4 (System 2)	34B-05-S and 34B-06-S	0.030	0.01
Batch scale hopper No. 2	34B-13-S	0.067	0.01
Dextrin bulk loading equipment	48-09-S	0.26	0.01
<del>Receiver for second stage germ dryer</del>	<del>51A-01-G</del>	<del>0.19</del>	<del>0.02</del>
<del>Second stage germ dryer exhaust</del>	<del>51A-02-G</del>	<del>1.01</del>	<del>0.015</del>
Starch milling system number 1	59-01-S	0.43	0.01
Starch milling system number 2	59-02-S	0.43	0.01
Starch ring dryer number 2	59-03-S	3.50	0.006
Fiber drying equipment	89-01-G	4.50	0.01
<del>Rotary feed dryer</del>	<del>89-03-G</del>	<del>4.5</del>	<del>0.03</del>
Dried corn syrup conveying system, frodex	93-04-W	0.069	0.01
Corn syrup solids conveyor equipment	93-05-W	0.066	0.01
Frodex semibulk packing system, building 93	93-08-W	0.083	0.01
Each stack serving bag dump numbers 1 and 2	93-09-W and 93-10-W	0.10	0.01
Starch bulk loading	93-14-W	0.273	0.01
Starch vacuum clean-up system	93-15-W	0.021	0.01
Starch mixing and bagging system #1	93-16-W	0.130	0.01
Starch mixing and bagging system #2	93-17-W	0.264	0.01
New corn syrup spray dryer cooler system number 3 (SIP #2)	100-01-R	4.96	0.015
#4 corn syrup spray dryer	100-03-R	4.2	0.01
Carbon regeneration furnace #2	104-01-R	0.728	0.015
Soda ash tank	104-02-R	0.154	0.02
Filter aid hopper	104-03-R	0.044	0.02

Sodium bisulfate bag dump	104-05-R	0.080	0.02
Each stack serving bulk corn starch storage bin numbers 20 through 36 (five (5) stacks may operate at one (1) time)	120-01-S to 120-17-S	0.56	0.01
Gluten dryer system	121-01-G	3.0	0.03
<del>Waxy feed drum dryer scrubber</del>	<del>124-01-G</del>	<del>11.12</del>	<del>0.03</del>
<del>Waxy feed milling equipment</del>	<del>124-22-G</del>	<del>0.051</del>	<del>0.01</del>
Germ dryer/cooler	124A-01-G	1.852	0.02
Starch ring dryer number 3	125-01-S	3.50	0.006
Waxy bulk cornstarch storage bins numbers 95 through 98 (only one (1) may operate at a time)	126-01-S to 126-04-S	0.16	0.01
<del>BCD dryer, building 127</del>	<del>127-01-B</del>	<del>0.57</del>	<del>0.01</del>
#1 and #2 vacuum cleaner system	127-21-B and 127-22-B	0.031	0.01
#1 and #2 <del>BCD storage hopper</del> <b>alternate carbohydrate storage bins</b>	<del>127-23-B and 127-24-B</del> <b>127-28-B and 127-29-B</b>	0.18	0.01
<del>BCD Alternate carbohydrate mill feeder hopper</del>	<del>127-25-B</del> <b>127-30-B</b>	0.028	0.01
Special starch process with starch dryer number 4, building 128	128-01-S	3.5	0.01
Four products blending systems, building 93	<del>130-01-S-P</del> <b>130-01-S</b> to 130-04-S	0.42	0.01
Dextrin blender	130-05-S	0.248	0.01
Corn receiving and storage-bin vent #1 and #2	140-01-G and 140-02-G	0.343	0.02
Corn receiving and storage-bin vent #3 and #4	140-03-G and 140-04-G	0.343	0.02
Corn dump pit	140-05-G	1.286	0.01
Gravity take-up conveyor system	140-06-G	0.154	0.01
Corn elevator conveying	140-07-G	0.086	0.01

~~(b) Boiler number 1 and boiler number 2 shall fire natural gas only. (Air Pollution Control Board; 326 IAC 6.8-2-8; filed Aug 10, 2005, 1:00 p.m.: 28 IR 3509; filed Jan 23, 2008, 1:44 p.m.: 20080220-IR-326040279FRA)~~

SECTION 2. 326 IAC 7-4.1-5 IS AMENDED TO READ AS FOLLOWS:

**326 IAC 7-4.1-5 Cargill, Inc. sulfur dioxide emission limitations**

**Authority: IC 13-14-8; IC 13-17-3-4; IC 13-17-3-11**

**Affected: IC 13-15; IC 13-17**

Sec. 5. (a) Cargill, Inc., Source Identification Number 00203, shall comply with the sulfur dioxide emission limits in pounds per million British thermal units (MMBtu) and pounds per hour as follows:

(1) Boilers 6, 7, 8, and 10 shall be limited to one and four thousand three hundred seventy-five ten-thousandths (1.4375) pounds per MMBtu and five hundred eighty-four (584) pounds per hour for all four (4) boilers.

(2) By one (1) year from the effective date of this rule, other emissions units shall be limited as follows:

Emissions Unit Description	Emissions Unit Identification	Emission Limit lbs/hour
(A) (1) Gluten Dryer System	121-01-G	<del>9.13</del> <b>0.68</b>
(B) Waxy Feed Drum Dryer	124-01	2.28
(C) (2) Fiber Dryer and Drying Equipment	89-01-G	<del>9.13</del> <b>3.95</b>
(D) Rotary Feed Dryer	89-03	6.85
(E) Germ Dryer 1 <sup>st</sup> Stage	21-A-02	1.14
(F) Germ Dryer 2 <sup>nd</sup> Stage	51-A-02	1.14
(G) (3) Germ Dryer	124-A-01	<del>9.13</del> <b>0.77</b>
(H) (4) Carbon Regen Furnace	104-01-R	<del>4.57</del> <b>0.11</b>
(I) (5) Biogas Flare	800-04-E	9.13

(b) Cargill, Inc. shall

(1) maintain records of average sulfur content, fuel oil usage, and boiler operating load for each hour in which any boiler operates on fuel oil;

(2) submit a report to the department within thirty (30) days after the end of each calendar quarter containing the records listed in subdivision (1) and a calculation of the total sulfur dioxide emissions from Boilers 6, 7, 8, and 10 for each hour; and

(3) submit a quarterly report of the twelve (12) month rolling total of all sulfur dioxide emissions in tons per year.

(Air Pollution Control Board; 326 IAC 7-4.1-5; filed May 25, 2005, 10:50 a.m.: 28 IR 2956)